Children's World

YEAR IN REVIEW 1990

CONTENTS

Message from the Chairman and President ..... Page 2
1990 Activities and Accomplishments ..... Page 5
Statistical and Financial Report ..... Page 29
People and Departments ..... Page 33

The drawings featured on the cover and throughout this issue of *Children's World* were created by Yi-Fang Guo, a Chinese artist whose son Li-Jian (Wei-Wei) is a patient at Children's. The story of Wei-Wei's care at Children's is chronicled on the inside back cover of *Children's World.*

Children's Hospital

300 Longwood Avenue
Boston, Mass. 02115

President: David S. Weiner
Chairman of the Board:
The Honorable John P. LaWare
Children's World is published by
the Office of Public Affairs
Vice President for Development and
Public Affairs: Anne Malone
Director of Public Affairs: Peggy Slasman
Editor: Rachel Hart

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MESSAGE FROM THE CHAIRMAN AND PRESIDENT

David S. Weiner, hospital president (left), and John P. LaWare, chairman of the Board of Trustees

"For all those who work at Children's, the greatest satisfaction comes from helping to make a difference in the life of a child."

Message from the chairman and the president

Children's Hospital entered the 1990s committed to and inspired by the same mission that has sustained it since its founding in 1869: to provide excellent health care to children.

This shared commitment to excellence is the force that built this institution and will carry it proudly into the future. The progress and accomplishments of the past year have helped position Children's Hospital for a future bright with the promise of continued leadership in child health.

A highlight of 1990 was the opening of the 14-story addition to the John F. Enders Pediatric Research Laboratories. This magnificent building has nearly doubled the space available for research, offering modern facilities that comfortably accommodate scientists and the sophisticated equipment needed to conduct world-class investigations.

The end of the 1990 fiscal year also brought to a successful close the five-year $40 million Children's Campaign, the most ambitious fund-raising drive in the hospital's history. Additional ongoing support during the campaign years brought the overall five-year fund-raising total to more than $71.5 million, a steadfast endorsement of the hospital's work by a generous and grateful community. The support demonstrated so willingly by thousands of donors and volunteers has allowed Children's to provide comprehensive services to sick children, build facilities that respond to the child's need to have a parent at the bedside, seek treatments and cures for the most devastating childhood diseases, and attract and retain top calibre staff.

This past year also witnessed extraordinarily high inpatient volume, especially during the winter months. Throughout the institution, employees and staff worked hard to meet the demands created by a consistently high census while keeping costs down. And these efforts paid off. For the first time in several years, Children's ended the fiscal year with a surplus from current-year patient care operations, a credit to the unwavering commitment of so many dedicated people.

The true strength of Children's Hospital indeed lies with its people. Children's is fortunate to have on its staff some of the foremost physician-academicians in pediatric medicine and surgery. The contributions of many of these talented professionals have raised the art and science of medicine to new heights.

This year, Joseph E. Murray, M.D., chief emeritus of Children's Division of Plastic Surgery, was awarded the 1990 Nobel Prize in Physiology or Medicine for the landmark work in kidney transplantation he performed at Peter Bent Brigham Hospital in the 1950s and 1960s. In addition, David G. Nathan, M.D., physician-in-chief, received the National Medal of Science from President George Bush for advancing the understanding of the blood disorder thalassemia and training today's leaders in hematology. Judah Folkman, M.D., director of Surgical Research Laboratories, and Louis M. Kunkel, Ph.D., chief of the Division of Genetics, were named to the prestigious National Academy of Sciences for their contributions to medicine.

For all those who work at Children's, the greatest satisfaction comes from helping to make a difference in the life of a child. The reward is tangible every time a disabled youngster learns a new skill; every time a premature baby is well enough to go home; and every time an injured teenager is returned to good health. The hospital's dedicated employees and staff make Children's a special place for patients during stressful times. And a similar compassion is extended to every parent faced with the anxieties of an ill child.

The hospital's philosophy of family-centered care helps ease stress by encouraging parents to take an active role in the care of their children. As integral members of the health care team, parents provide a calming presence at the bedside, helping to speed the physical and emotional healing of their children.

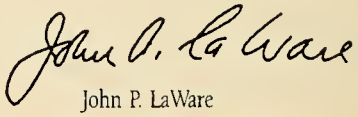
Information from patients and families helps identify the hospital's strengths and weaknesses. This year, Children's initiated a program in which questionnaires are sent to patients and families after discharge, seeking information about their hospital experience. The response has been overwhelming. Heartwarming descriptions of the care, services, and environment confirm that Children's is doing an excellent job overall. Families have written with gratitude and warmth about caring employees who helped make a procedure less frightening or who took the time to listen and understand. Children's also has learned about systems and services that need to be revamped or improved

and ways to make the hospital more comfortable. This information has proved to be a valuable decision-making tool, allowing the institution to become increasingly responsive to the many children and families it serves.

As a tertiary care hospital, Children's remains committed to developing and expanding the procedures and therapies that save and improve so many young lives. At the same time, the hospital must operate on a different front to seek creative ways to address problems that affect children living in the inner city — problems like the racial disparity in infant mortality, the declining number of children who are fully immunized, the increase in malnutrition, and the rise in the rate of pediatric AIDS. In its role as an advocate for children, this institution works to ensure that all children have the opportunity to grow up healthy and reach their potential. To accomplish such an ambitious goal, the hospital must continue to work closely with the state and federal government to prevent the erosion of much-needed programs that benefit children. At the same time, Children's must work collaboratively with other institutions, public and private, to find solutions to these disturbing problems.

Sorting through the multiple demands and responsibilities of the hospital, making choices, articulating priorities, identifying growth areas, and implementing a plan is an ongoing exercise for Children's Hospital. The success of these efforts rests on the energy, creativity, and talent of the professional staff, employees, management, and board. We can state with enormous pride and gratitude that Children's stands fully prepared to meet these challenges.

The achievements of the past year, chronicled on the pages that follow, attest to the enthusiasm and spirit of the thousands of people who make up the Children's Hospital family. It is their collective commitment to excellence that enables this institution to grow stronger year after year and remain a vital resource for thousands of children in Boston, throughout New England, and around the world.



John P. LaWare
Chairman of the Board

David S. Weiner
President

1990 ACTIVITIES AND ACCOMPLISHMENTS

STRIDES IN PATIENT CARE

J. Philip Saul, M.D., (top) and Edward P. Walsh, M.D.

Radio waves correct heart rhythm defect

In March, Children's cardiologists used radio waves to repair a heart rhythm defect in a 5 year old, marking the first time the nonsurgical procedure had been used to correct a pediatric arrhythmia. Before the perfection of this procedure, patients required open-heart surgery to correct the congenital defect, known as Wolff-Parkinson-White (WPW) syndrome.

J. Philip Saul, M.D., assistant in Cardiology, and Edward P. Walsh, M.D., associate in Cardiology, used a technique called radio-frequency catheter ablation to stop the abnormal contractions caused by WPW syndrome. The physicians inserted a catheter into a small opening in the patient's leg and fed the tube into the heart and through the atrial septum, the wall separating the two chambers of the heart.

The tube was then positioned at the site of the abnormal electrical signal, and radio waves were directed through the catheter, paralyzing the defective muscle and eliminating the abnormal contractions.

WPW syndrome affects approximately three out of every 1,000 children in the United States. In addition to providing a significantly less invasive method for correcting the disorder than open-heart surgery, radio-frequency catheter ablation could also have dramatic implications for the non-surgical treatment of other arrhythmia disorders.

Angiogenesis research reaches clinical trial phase

In 1990, two clinical applications of ongoing research in angiogenesis, or blood vessel growth, were implemented on an experimental basis at Children's. Clinical trials were begun on a test to predict metastasis among patients with solid tumors. These trials are based on angiogenic principles worked out in the laboratory of Judah Folkman, M.D., director of Children's Surgical Research Laboratories. In addition, a new method of treating life-threatening hemangiomas (tumors made up of newly formed blood vessels) is being examined in a study coordinated by R. Alan B. Ezekowitz, M.D., Ch.B., D.Phil., associate in Medicine (Hematology/Oncology), Folkman, and John B. Mulliken, M.D., associate in Surgery (Plastic Surgery).

The first procedure, tested in conjunction with pathologists from Brigham and Women's Hospital, allows physicians to precisely measure angiogenic activity in sections of tissue taken from breast cancer biopsies. This test may potentially save lives by providing a mechanism

to predict if and how far a tumor will spread. The second procedure, an experimental therapy for hemangiomas, involves the use of various angiogenesis inhibitors, including alpha-interferon, a family of steroids, and a fungal derivative.

The progress in predicting and treating tumors, corneal blindness, and other vascular disorders builds upon more than 20 years of angiogenesis research conducted in Folkman's laboratories.

Children's performs its first matched, unrelated bone marrow transplantation

Physicians in Children's Division of Hematology/Oncology performed the hospital's first matched, unrelated bone marrow transplantation in 1990, offering hope for patients who need a transplantation but have no suitable donor in their families. It is estimated that only one unrelated donor in 20,000 will provide a perfect match.

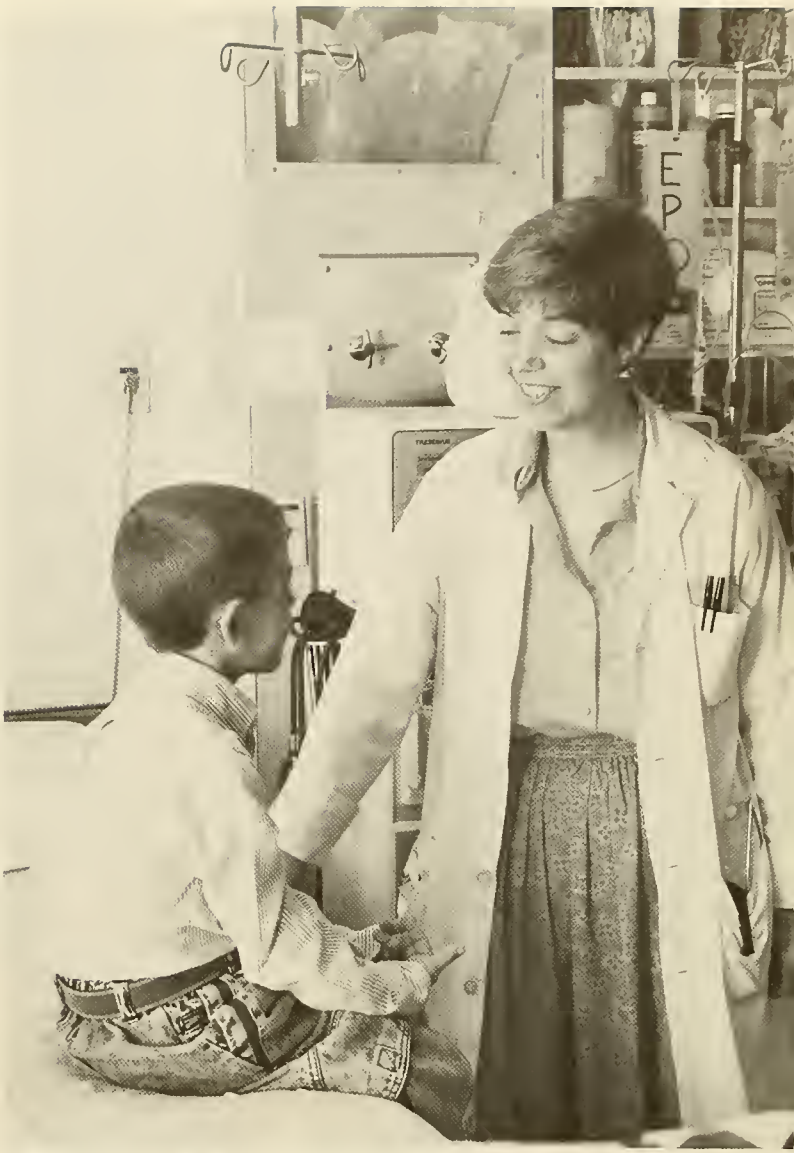
The experimental procedure was first carried out in July on a 2-year-old girl with Hurler syndrome, a potentially fatal enzyme deficiency. The transplantation was successful, enabling the patient to produce a healthy level of the enzyme. Unrelated bone marrow transplantation also has been performed on Children's patients with leukemia and other blood disorders.

Engraftment, or proliferation of donor marrow cells, must be achieved for the transplantation to succeed. Long-term success of a matched, unrelated transplantation also depends upon the avoidance of three dangerous conditions: relapse, infection, and graft-versus-host disease, in which donor cells attack the recipient's own cells.

Children's leads erythropoietin clinical trial

After successfully completing a small study of recombinant human erythropoietin (EPO) in hemodialysis patients at Children's, researchers from the Division of Nephrology launched a nationwide study in 1990 to determine the product's efficacy and dosage requirements in pediatric patients. The study, directed by Kathy L. Jabs, M.D., assistant in Medicine (Nephrology), and William E. Harmon, M.D., chief of the Division of Nephrology, will also examine the impact of EPO on growth, cognitive development, and cardiac function.

Erythropoietin, the hormone responsible for producing red blood cells, is missing in children with chronic renal failure. In addition to requiring dialysis — a blood purification treatment — three times per week, these patients must undergo frequent blood transfusions to boost their red blood cell levels. The recombinantly produced EPO eliminates the need for these transfusions and thus their associated risks.



Kathy L. Jabs, M.D., discusses the erythropoietin trial with 7-year-old dialysis patient Alvaro "Junior" Saraiva.

EPO was approved for use in adult dialysis patients in July 1989, but the drug had not undergone quantitative assessment for pediatric use until Children's study. Patients in this pilot study experienced dramatic improvements associated with increased red blood cell count, including elevated energy levels, bigger appetites, and faster growth.

The large-scale study will follow more than 200 patients at 15 pediatric dialysis centers across the United States. It is expected to last three years. Other Children's researchers involved in the study include Steven D. Colan, M.D., associate in Cardiology; Leonard A. Rappaport, M.D., associate in Medicine (Ambulatory Medicine) and director of Medical Diagnostic Programs; and Edward Z. Tronick, Ph.D., director of the Child Development Unit.

Jane W. Newburger, M.D.

Children's performs first lung transplantation

In late May, an application from Children's and six other Boston area hospitals to establish the Boston Center for Lung Transplantation (BCLT) was approved by the Massachusetts Department of Public Health (DPH). Children's currently is one of three Boston hospitals authorized to perform lung transplantations, and the only one authorized to perform the procedure on children. The BCLT predicted an annual need for approximately 112 lung transplantations in the state.

The application was approved just months after a surgical team led by Craig W. Lillehei, M.D., assistant in Surgery, performed the first such procedure ever undertaken in Massachusetts — a single-lung transplantation on a 6-year-old patient. The patient, whose health was severely compromised before undergoing surgery, died several days later after experiencing complications.

Because the BCLT application was pending when the patient needed the procedure, Children's required special permission from DPH to perform the surgery. No special dispensation is now required for lung transplantation.

Single drug infusion benefits Kawasaki patients

In May, Children's physicians announced results of a 3½-year clinical trial concluding that a single infusion of high-dose intravenous gamma globulin (IVGG) is as safe and at least as effective as the traditional four-day therapy in treating Kawasaki disease. The study was directed by Jane W. Newburger, M.D., associate in Cardiology, and Fred S. Rosen, M.D., director of the Clinical Immunology Program.

Kawasaki disease is an acute illness of unknown origin that occurs predominantly in infants and young children and is characterized by fever, rash, swelling of the extremities, conjunctivitis, and inflammation of the mucous membranes of the mouth, lips, and throat.

The trial involved seven United States medical centers and 549 patients, who were randomly assigned to either a conventional-treatment group or the single-infusion group. Traditional treatment prescribes small daily doses over a four-day period, while the single infusion consists of a high dose administered in one 10-hour period.

Trial results showed that fever decreased more rapidly in children who received the single infusion of IVGG, and this group also

showed quicker resolution of inflammation. Additionally, children receiving traditional therapy were found to be twice as likely to have coronary artery abnormalities than those receiving the new regimen.

The single-dose regimen has the added advantage of decreasing the length of hospitalization, resulting in substantially reduced cost, decreased morbidity from long-term intravenous therapy, and psychological benefits for children and their families.

Study correlates childhood lead exposure with developmental problems in young adults

Early childhood exposure to significant amounts of lead can result in developmental problems later in life, according to a study involving researchers from Children's Neurology Department published in *The New England Journal of Medicine* in January 1990.

The study indicates that young adults who had elevated lead in their bodies in early childhood were seven times more likely to drop out of high school and six times more likely to have reading disabilities than young adults who had lower exposure to lead earlier in life.

The study is a follow-up of 132 of 270 first- and second-graders from Chelsea and Somerville, Mass., who were tested for lead exposure in early childhood between 1975 and 1978. The research represents the only long-term study examining the effects of exposure to lead at an early age on functional abilities later in life.

Children's staff involved in the research include Elizabeth N. Allred, M.S., statistician in Neurology; David C. Bellinger, Ph.D., research associate in Neurology; and Alan Leviton, M.D., associate in Neurology. The study was directed by Herbert L. Needleman, M.D., of the University of Pittsburgh School of Medicine, who initiated it 11 years ago when he practiced at Children's. Alan Schell, Ph.D., also formerly on staff at Children's, served as project coordinator.

Children's Lead and Toxicology Program, directed by John W. Graef, M.D., associate in Medicine (Ambulatory Medicine), records approximately 1,200 patient visits per year. Program staff evaluate children for exposure to lead and, when appropriate, provide treatment.

Three-stage procedure successfully repairs hypoplastic left heart syndrome

Cardiovascular surgeons at Children's modified the surgical repair of hypoplastic left heart syndrome (HLHS) by adding an intermediary step, significantly improving the chance of survival for children born with the life-threatening congenital defect.

HLHS is characterized by the absence of a left ventricle, which normally pumps oxygenated blood to the body. Without treatment, the defect is fatal. The only alternative to reparative surgery for HLHS is heart transplantation.

Richard A. Jonas, M.D., senior associate in Cardiovascular Surgery, and Aldo R. Castaneda, M.D., Ph.D., surgeon-in-chief and cardiovascular surgeon-in-chief, revised a two-stage procedure that was developed at Children's in the mid-1980s into a three-step surgical correction.

In May, the final step was successfully performed on a 5-year-old girl, the first HLHS patient to undergo all three phases of surgery.

The three-stage procedure has already reduced to less than 5 percent from 15 percent the mortality rate at Children's for patients suffering from other single-ventricle defects that are less complicated than HLHS, and is likely to improve the outcome for children with HLHS, allowing them to live normal, unrestricted lives.

Brooke Rawson, 5, the first patient with hypoplastic left heart syndrome to undergo a new, three-part surgical correction, looks forward to a healthy future.

Barbara R. Pober, M.D., M.P.H., examines Williams syndrome patient Julie Cummings, 5.

New purification methods offer hope for patients with hemophilia

Two new methods of producing and purifying a protein crucial for normal blood clotting were developed with the help of Children's researchers and physicians last year, offering promise for safer and more plentiful supplies of a product essential to patients with hemophilia.

The first method blends human genes with hamster tissue cells to produce factor VIII, the clotting protein that is deficient in 90 percent of all people with hemophilia.

The second procedure involves purifying factor VIII by using specially prepared receptors called monoclonal antibodies, which bind to the factor.

While antibody treatment of donated blood has already produced much safer products for hemophilia patients, its use in conjunction with recombinant technology can potentially produce an unlimited, infection-free supply.

Administration of recombinant factor VIII eliminates the need for human blood transfusions, which carry a small but finite risk of transmitting infection. Together with hemophilia health care workers from around the world, physicians and nurses from Children's Hemophilia Program are participating in human trials of this material. Preliminary results, reviewed at the World Hemophilia Federation meeting in Washington, D.C., detailed the effectiveness of this product and the absence of negative side effects.

Williams Syndrome Program established

A diagnostic and follow-up program for patients with Williams syndrome, a disorder marked by multiple developmental and medical anomalies, was established at Children's last spring. Directed by Barbara R. Pober, M.D., M.P.H., assistant in Medicine (Genetics), the Williams Syndrome Program coordinates multidisciplinary care, including the services of a developmental psychologist, dentist, nutritionist, and physical, occupational, and speech therapists.

In addition to providing coordinated care to patients and families, Pober is collaborating with the New England Regional Genetics Group to develop Williams syndrome diagnostic criteria.

Williams syndrome is relatively rare, affecting approximately 1,200 children and adults nationwide. First identified in 1961, Williams syndrome involves multi-system disorders, often including learning disabilities, mental retardation, poor muscle tone, cardiovascular abnormalities, and characteristic elfin facial features such as a flat nasal bridge, full lips, and a pointed chin.

Premature infants benefit from early intervention

The results of a four-year national study completed in 1990 showed that enhancing the early social and educational environments of premature babies substantially improves their IQ scores.

Michael W. Yogman, M.D., associate in Medicine (Newborn Medicine), directed the study at the Boston site. Marie C. McCormick, M.D., Sc.D., senior associate in Medicine (Newborn Medicine), served on the Research Steering Committee.

The study followed two groups of children from birth through age 3. One group and their parents received a special educational intervention involving home visits and day care. Both groups received medical care, developmental assessment, and referral to community services.

The findings support the idea that early intervention can play an important role in offsetting the risk of developmental, behavioral, and health problems among infants born prematurely.

INSTITUTIONAL HIGHLIGHTS

The five-year Children's Campaign draws to a successful conclusion

On Sept. 30, Children's Hospital successfully completed The Children's Campaign, an ambitious five-year, $40 million fund-raising drive. Thousands of individuals and organizations generously contributed to the campaign, which helped fund the construction of a new hospital and supported programs in pediatric research.

Gifts and pledges to The Children's Campaign reached a total of $40,167,522. During the years of the campaign, the hospital sought to raise an additional $31.5 million to support ongoing programs. This goal, too, was met by Sept. 30, boosting the five-year fund-raising total to more than $71.5 million.

The patient care building, which opened in February 1988, replaced facilities that were 30 to 50 years old. The Main Building, designed to provide a state-of-the-art, efficient environment for pediatric patient care, continues to win high praise from medical and nursing staff, patients, and families.

The Children's Campaign was chaired by George H. Kidder, vice chairman of the Board of Trustees. Additional leadership was provided by other members of the board, overseers, medical staff, and friends of the hospital, whose efforts steered the campaign to a successful conclusion.

Philip Leder, M.D., speaks at the dedication of the expansion to the John F. Enders Pediatric Research Laboratories.

Children's scientists move into expansion of John F. Enders Pediatric Research Laboratories

Researchers began moving into the expansion of the John F. Enders Pediatric Research Laboratories at Children's in February 1990, and occupants continued to move into the new laboratory space throughout the spring and summer.

The largest pediatric research center in the world, Children's has a long tradition of inquiry into the causes of childhood diseases, and has been the site of many major medical research breakthroughs.

The $55.75 million expansion contains state-of-the-art laboratories designed to accommodate equipment and environmental controls necessary for contemporary molecular and biomedical research. A portion of the expansion was funded by the Howard Hughes Medical Institute, the largest private medical research organization in the country.

The new hospital auditorium, located on the lobby level of the expansion, seats 168 and is used for medical, surgical, and nursing grand rounds; medical conferences; hospital events; meetings; and lectures. The auditorium is outfitted with audio-visual equipment for videotaping, slide and film presentations, and teleconferencing.

Throughout the spring and early summer a series of special events was held to recognize Children's researchers, as well as those involved in the building's planning and construction. In addition, hospital staff members toured the new research facility.

The Enders Building expansion was formally dedicated June 24. Purnell W. Choppin, M.D., president of the Howard Hughes Medical Institute; George H. Kidder, vice chairman of Children's Board of Trustees; David G. Nathan, M.D., Children's physician-in-chief; and David S. Weiner, president of Children's Hospital, participated in the program. Philip Leder, M.D., chairman of the Department of Genetics at Harvard Medical School and featured speaker for the event, discussed the future of genetic research. The ceremony was followed by a reception at the Longwood Galleria.

Technicians Carolyn Pickett and Joe Stec explain the MRI procedure to Latisha Chamblain.

MRI suite opened in Radiology Department

The Department of Radiology opened a magnetic resonance imaging (MRI) suite in April, offering Children's patients one of the most advanced diagnostic imaging technologies available. MRI allows physicians to detect abnormalities in soft tissues long before they become visible on a conventional x-ray.

Located in the Department of Radiology on the second floor of the Main Building, the MRI suite includes three examination and sedation rooms, processing equipment, and staff offices. For the past several years, Children's physicians have had limited access to MRI facilities located in other Longwood Medical Area hospitals.

MRI can identify problems in virtually every area of the body, including the heart, brain, muscles, spinal cord, blood, and bone marrow. The technology is also used to direct powerful lasers for microsurgery and energy beams for radiotherapy.

Children's-English High program earns award

The Children's Hospital-English High School Job Training Collaborative, begun in 1989 to provide health care career training to inner-city students at risk of dropping out of high school, was awarded a LIFT (Labor Investing for Tomorrow) America Award from the U.S. Department of Labor.

The collaborative program was one of 16 winners chosen from more than 500 entries nationally and the only winning program to focus on health care career training. Rudman J. Ham, vice president for Operations, accepted the award on behalf of Children's from former Secretary of Labor Elizabeth Dole at a ceremony in Washington, D.C., in September.

Hospital introduces new publications

In January, Children's introduced two new publications, *The News* and *Pediatric Views*.

The News is the hospital's monthly internal newsletter, providing employees and staff, volunteers, patients, families, and visitors with news and information about issues, events, and people throughout the institution.

Pediatric Views relays current medical news and information from Children's to the health care community in Boston and throughout New England. The quarterly publication is aimed at facilitating communication among physicians and other health care providers, administrators of medical institutions, and scientists.

Both publications are produced by the Office of Public Affairs.

Children's hosts events during AAP meeting

Children's Hospital sponsored two events for medical alumni in conjunction with the annual meeting of the American Academy of Pediatrics in Boston in October. Alumni were invited to tour Children's new patient care building and the recent expansion of the John F. Enders Pediatric Research Laboratories. Physicians representing various specialties were on hand to discuss advances in patient care and research, and to brief alumni about recent developments and future plans for the hospital.

Alumni and staff also attended a reception at the Westin Hotel, where they had an opportunity to become reacquainted with friends and to exchange views on current issues in medicine.

Children's co-hosts science reporters conference

Children's was one of three Boston hospitals to co-host the ninth annual American Medical Association Science Reporters Conference, held in October at the Cambridge Marriott Hotel. More than 75 reporters, representing media from throughout the United States, attended the conference, which featured presentations by four Children's Hospital physicians and researchers.

Louis M. Kunkel, Ph.D., chief of the Division of Genetics, gave a presentation on new approaches to therapy and improved diagnosis for Duchenne muscular dystrophy. James E. Lock, M.D., clinical chief of the

Department of Cardiology, discussed the repair of heart defects without surgery using a catheterization technique he developed at Children's.

Project School Care, a program that facilitates the transition from the hospital to school for technology-dependent children, was described by Judith S. Palfrey, M.D., chief of the Division of Ambulatory Medicine, and "Tissue Engineering as an Alternative to Liver Transplantation" was the title of a presentation by Joseph P. Vacanti, M.D., senior associate in Surgery and clinical director of the Organ Transplantation Program.

Medical staff, ambulatory directory published

In July, the hospital published the *Directory of Children's Hospital Medical Staff and Ambulatory Programs,* a comprehensive resource for physicians and health care professionals throughout New England.

The directory contains a complete listing of Children's Hospital medical staff, including their hospital and Harvard University appointments and information about areas of practice specialty, as well as descriptive information about each of the hospital's outpatient programs.

Publication of the directory is one of several efforts Children's has undertaken to enhance its relationship with community physicians and health care organizations.

Specialty Care Center expands services

Children's Specialty Care Center in Lexington expanded its services in 1990, initiating a lecture series for health care providers and increasing staff for the center's established programs. More than 7,000 patients visited the center in its first full year of operation, and more than 250 physicians referred patients to Children's specialists at the Lexington satellite.

The lecture series included discussions led by Children's health care staff on neonatal resuscitation, dermatology, controlling cholesterol, growth problems in children, gastroesophageal reflux, and common problems in pediatric urology.

One notable service expansion was implemented by the Department of Otolaryngology and Communication Disorders, providing services by otolaryngologists at the center four days a week, four hours a day.

In addition, an advisory board comprised of hospital staff and physicians and referring physicians from the community was established to further refine the center's outreach and strategic planning efforts.

Karen Wiss, M.D., assistant in Medicine (Immunology), with Katie Johnson, 5, of Lexington at the Specialty Care Center.

Children's employee Denella James reads to her daughter, Cherina Clark, at an open house at the hospital's Child Care Center.

Blass Fashion Show benefits Children's

The Bill Blass Fashion Show and Dinner Dance in May proved to be an outstanding fund-raising event to benefit the hospital, raising more than $450,000 through ticket sales, cash contributions, and a raffle.

The event, held at the Boston Park Plaza Hotel, was organized by co-chairmen Mrs. T. Dennie Boardman, a hospital overseer; Mrs. Donald F. Cutler Jr.; and Mrs. Earl E.T. Smith Jr., who worked with an 80-member committee for more than a year to plan the event. A similar event was held in 1986.

Raffle prizes included season tickets to Squaw Valley USA, dinners at several renowned Boston and New York City restaurants, and a Bill Blass dress valued at $4,000. The fashion show production was sponsored by Saks Fifth Avenue and marked the Boston premiere of the Bill Blass Fall 1990 Collection.

Funds raised were allocated to the Department of Cardiovascular Surgery and The Children's Campaign.

Hospital's Child Care Center opens

After months of planning and preparation, Children's celebrated the opening of its Child Care Center in June, offering employees professional day care for infants, toddlers, and preschool children.

Under the direction of Susan Twombly, M.S., the center, located on the campus of Emmanuel College, has a staff of 13 teachers and the capacity to accommodate 42 children: seven infants, two groups of nine toddlers each, and 17 preschoolers.

Children's hosts hematology symposium

An international symposium on "Molecular Regulation of Hematopoiesis" was held at Children's in September. The symposium, organized by David G. Nathan, M.D., physician-in-chief; Stuart H. Orkin, M.D., senior associate in Medicine (Hematology/Oncology); and David A. Williams, M.D., former assistant in Medicine (Hematology/Oncology), attracted more than 150 physicians from around the world.

Alan D. D'Andrea, M.D., assistant in Medicine (Hematology/Oncology); Judah Folkman, M.D., senior associate in Surgery and director of Surgical Research Laboratories; Bernard Mathey-Prevot, Ph.D., research associate in Medicine (Hematology/Oncology); and Colin Sieff, M.D., research associate in Medicine (Hematology/Oncology), were featured speakers, along with Nathan, Orkin, and Williams.

Children's sponsors Glasnost dance conference with Boston Ballet, Soviet dancers

Physicians and physical therapists from Children's met with Soviet physicians and dancers at a dance medicine conference in Boston in May. The event coincided with the Boston Ballet's production of Swan Lake, which featured Soviet dancers and choreographers.

The conference was organized by Lyle J. Micheli, M.D., associate in Orthopaedic Surgery and director of the Division of Sports Medicine, who serves as physician for the Boston Ballet; Elaine Bauer, former principal dancer and current ballet mistress for the ballet company; and Arlene Walaszek, P.T., and Christine Ploski, P.T., of the Department of Physical Therapy.

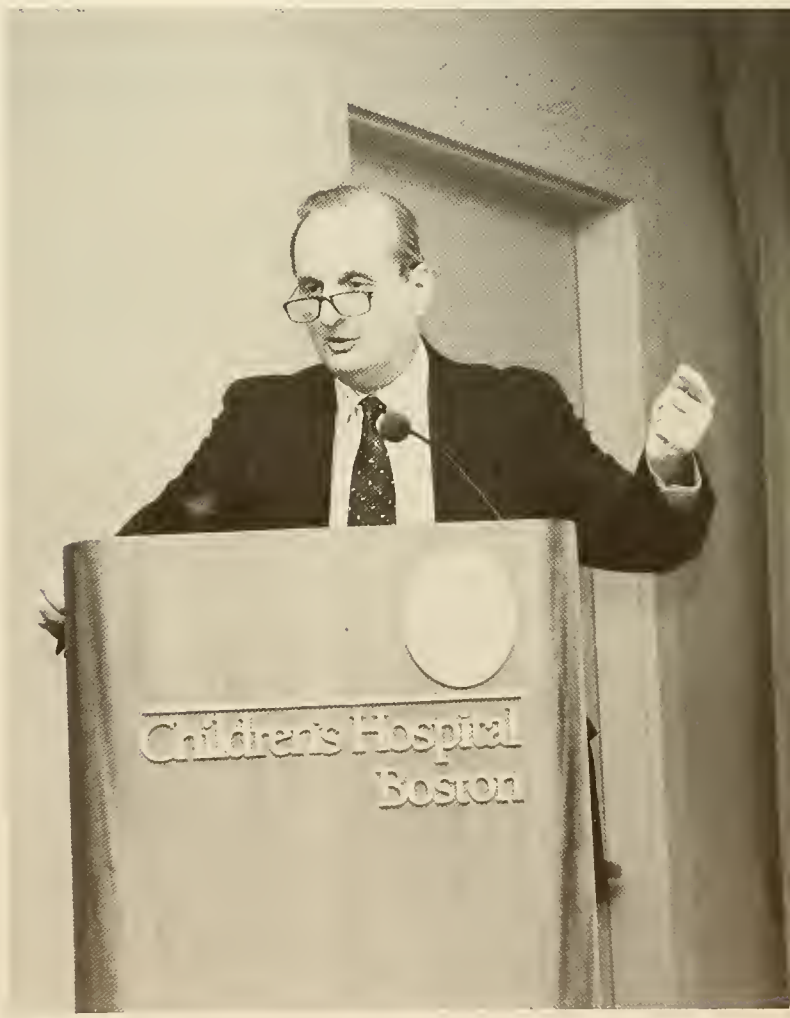
Dance medicine, a relatively new discipline in the United States, has long been practiced in the Soviet Union. The conference attracted six Soviet physicians, and provided a rare opportunity for East-West exchange on issues of concern for physicians and physical therapists tending to the specific medical needs of dancers.

Surgical unit opens on Farley and Bader 5; Neuroscience units expanded

In April, Children's opened an 18-bed surgical unit in renovated space on Bader 5 and Farley South 5. Patients from General Surgery, Urology, Plastic Surgery, and Otolaryngology and Communication Disorders receive care on this unit.

Previously located on 10 West in the Main Building, the unit moved to renovated space to expand inpatient accommodations in the Main Building for the growing number of orthopaedic patients receiving care at Children's. The Orthopaedic Unit now encompasses both 10 North and 10 West and includes 36 beds.

Also in April, the Solid Organ Transplant Unit moved from 9 West to 8 North. This move vacated six bed spaces on 9 West that were incorporated into 9 North, the Neurosciences Unit, to accommodate neurology and neurosurgery patients. The Neurosciences Unit now has 24 beds.



Judah Folkman, M.D.

RESEARCH HIGHLIGHTS

New method developed for fetal genetic screening

A new procedure has shown that a small sample of a mother's blood can harbor enough fetal cells to make genetic screening possible, providing a potential alternative to amniocentesis and chorionic villus sampling (CVS). The work was announced by a research team headed by Diana W. Bianchi, M.D., assistant in Medicine (Genetics, Newborn Medicine).

The test is considerably less invasive than amniocentesis and CVS — which require extraction of fetal cells from the placenta — thus reducing the risks of miscarriage, infection, and bleeding. It can also be performed as early as eight weeks into pregnancy, earlier than the other methods.

The procedure could potentially provide a screen for any disease for which the genetic basis is known, including muscular dystrophy, cystic fibrosis, hemophilia, and sickle cell disease.

The procedure is risk-free for the fetus, enabling women with a history of pregnancy problems to obtain genetic information without the risks associated with more invasive procedures.

Possible treatment for AIDS dementia identified

Researchers in the Department of Neurology have discovered that a commercially available drug similar to those used to treat cardiac arrhythmias and hypertension may be effective in preventing damage to the central nervous system caused by protein on the human immunodeficiency virus (HIV).

The research team, headed by Stuart A. Lipton, M.D., Ph.D., associate in Neurology, has tested the drug, a calcium channel blocker called nimodipine, in rodent neurons *in vitro*. The drug's efficacy still must be proven in a clinical application.

The findings, published in the April 20 issue of the journal *Science*, indicate that the drug prevents an increase in calcium levels that subsequently cause nerve cell death. The increased level of calcium is caused by a coat protein that is shed by the HIV. This rise in calcium levels has been proven in previous studies to lead to nerve cell injury and possibly contribute to dementia, which afflicts two-thirds of AIDS patients.

Diana W. Bianchi, M.D.

Cardiovascular surgeon explores feasibility of fetal surgery to correct heart defects

Extending the Department of Cardiovascular Surgery's philosophy of early correction of heart defects, Frank L. Hanley, M.D., associate in Cardiovascular Surgery, is researching the feasibility and effectiveness of performing fetal cardiac surgery. The goal of the research is to perfect treatments that can be applied to human fetuses, correcting defects that typically result in life-threatening and uncorrectable conditions at birth if left untreated throughout pregnancy.

If proven feasible, fetal surgery would be most appropriate for cases in which a primary defect obstructs normal blood flow within the

Bruce A. Yankner, M.D., Ph.D.

heart, inhibiting the proper development of the heart's chambers.

In laboratory animal studies, Hanley has been experimenting with placing the fetus on a cardiopulmonary bypass machine, a step that is necessary when performing cardiac surgery. The technical aspects of this procedure have been perfected so it can be performed reliably on late-gestation laboratory animals without major complications for the mother.

Further investigations are focusing on the fetus' response to stress caused by the surgical and bypass procedures. If these problems can be resolved, the procedure will be ready for clinical trials.

Hanley projects that laboratory research will continue for three to five years before clinical applications can be considered.

Children's researchers uncover clues to possible cause of Alzheimer's disease

A Children's Hospital research team has pinpointed the beta amyloid protein as the likely cause of the neuron degeneration that leads to Alzheimer's disease. The team, led by Bruce A. Yankner, M.D., Ph.D., assistant in Neurology, also discovered that a hormone, which exists naturally in the human body, not only halts this degeneration in laboratory culture, but reverses it. The findings, which may lead to a treatment for Alzheimer's, were published in the Oct. 12 issue of the journal *Science*.

Alzheimer's disease is characterized by the presence in the brain of bundles of degenerating nerves called senile plaques. These plaques have long been known to contain an excessive amount of beta amyloid protein. The normal function of this protein, however, and the reason for its presence in senile plaques are unknown.

When Yankner's team noted a striking similarity between the fragment of the beta amyloid protein responsible for the toxic effects and a family of hormones known as tachykinins, they hypothesized that the fragment may be a tachykinin antagonist, blocking the normal function of the hormone. If the toxic fragment is such an antagonist, it follows that the hormone itself may reverse the damage. After testing a series of tachykinins on a culture model of Alzheimer's in the laboratory, the team determined that one, known as substance P, reversed the effects of beta amyloid on neurons.

The finding also has positive implications for Down syndrome patients, who almost always develop symptoms of Alzheimer's disease by the time they reach their middle 30s.

Gail A. Bruns, M.D., Ph.D.

Children's scientists clone Wilms' tumor gene

Gail A. Bruns, M.D., Ph.D., senior research associate in Medicine (Genetics), and her laboratory team have cloned a gene that may be responsible for Wilms' tumor, a childhood kidney cancer that affects an average of one in 8,000 children.

The Wilms' tumor gene is known to be part of a constellation of genes involved in human development at an early stage. The exact function of the gene, however, cannot be determined until two other related genes are cloned as well.

The finding, published in the Feb. 22 issue of the British journal *Nature,* may provide a better understanding of the gene and its associated protein. It also may provide researchers with further information about related kidney disorders.

Purified cartilage extract inhibits growth of blood vessels, tumors

A cartilage extract that has proven effective in inhibiting blood vessel and tumor growth was purified in 1990 in Children's Surgical Research Laboratories. The successful purification of the extract could improve scientists' efforts to control tumor growth and to understand the biochemical and cellular mechanisms of tumor growth inhibitors.

Robert Langer, Sc.D., senior research associate in Surgery, and Martha Moses, Ph.D., research associate in Surgery, led the research team that has been investigating the usefulness of cartilage extract since 1976. Cartilage is free of vascularization, or blood vessel growth, and is therefore considered a likely source of growth inhibitors. In a 1980 study, Langer showed that a cartilage extract prevented capillary cells within tissue from both dividing and migrating, starving a nearby tumor of essential nutrients.

The results of the purification study were published in the June 15 issue of the journal *Science.*

MEDICAL STAFF NEWS

Joseph E. Murray, M.D.

Murray receives 1990 Nobel Prize for pioneering work in kidney transplantation

Joseph E. Murray, M.D., chief emeritus of the Division of Plastic Surgery at Children's, received the 1990 Nobel Prize in Physiology or Medicine. He was awarded the prize for his pioneering work in the biology of organ transplantation and rejection, conducted at the Peter Bent Brigham Hospital during the 1950s and 1960s. He shared the prize with E. Donnall Thomas, M.D., of the Fred Hutchinson Cancer Research Center in Seattle.

Murray was responsible for the world's first successful organ transplantation, a kidney transplantation between identical twins in 1954; the first successful kidney transplantation from a cadaver in 1962; and the nation's first mid-facial osteotomy (the detachment and advancement of the facial skeleton) in 1966.

His association with Children's began in 1943 when he was a student at Harvard Medical School, and continued into his residency period and professional years. In 1967 Murray founded the first plastic surgical residency program in Boston, a combined program between Children's and Peter Bent Brigham hospitals. Two years later he assumed the position of chief of Plastic Surgery at both hospitals.

During his tenure at Children's, Murray established the multidisciplinary Craniofacial Center for diagnosis and treatment of congenital and acquired facial deformities.

David G. Nathan, M.D.

Nathan receives National Medal of Science

David G. Nathan, M.D., physician-in-chief, was awarded the National Medal of Science, the highest scientific honor given by the president of the United States. The medal was presented by President George Bush at a White House ceremony in November.

Nathan is one of 264 scientists awarded the medal since its inception in 1962. He was honored for his contributions to the diagnosis and treatment of a variety of blood disorders, including thalassemia, an inherited anemia, as well as his role in training some of the country's leading hematologists and oncologists.

Folkman, Kunkel named to Academy of Sciences

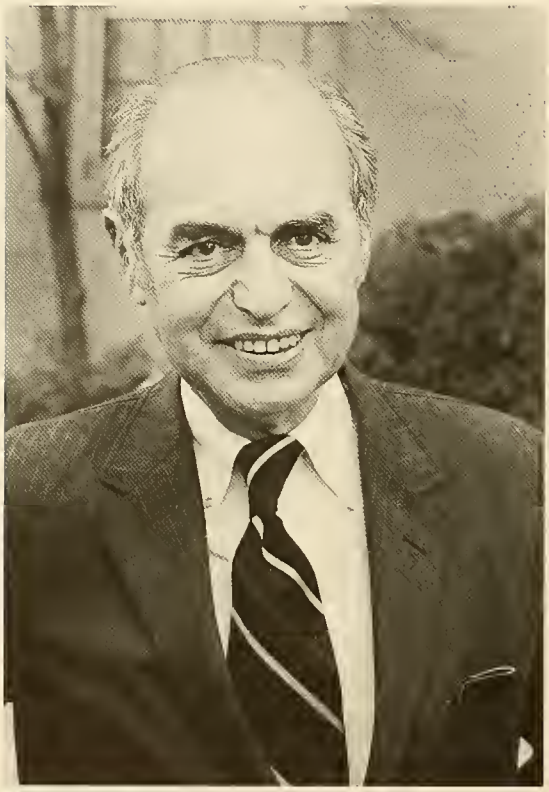
Judah Folkman, M.D., director of Surgical Research Laboratories, and Louis M. Kunkel, Ph.D., chief of the Division of Genetics, were elected in April to the National Academy of Sciences, one of the most prestigious scientific honor societies in the United States.

Since 1957, Folkman has built a career at Children's as a clinician, researcher, and teacher. He served as Children's surgeon-in-chief from 1967 to 1981. His work exploring angiogenesis, the growth of blood vessels, continues to offer

new insight into the mysteries of tumor development and blood vessel disease.

Kunkel has earned considerable recognition in recent years for his 1986 discovery of the gene and subsequent identification of the protein responsible for Duchenne muscular dystrophy.

The National Academy of Sciences is a private, nonprofit organization that advises the United States government about matters of science and technology. Sixty new members and 15 foreign associates were elected to the academy in 1990, bringing the voting U.S. membership to 1,601 and the nonvoting foreign membership to 272.

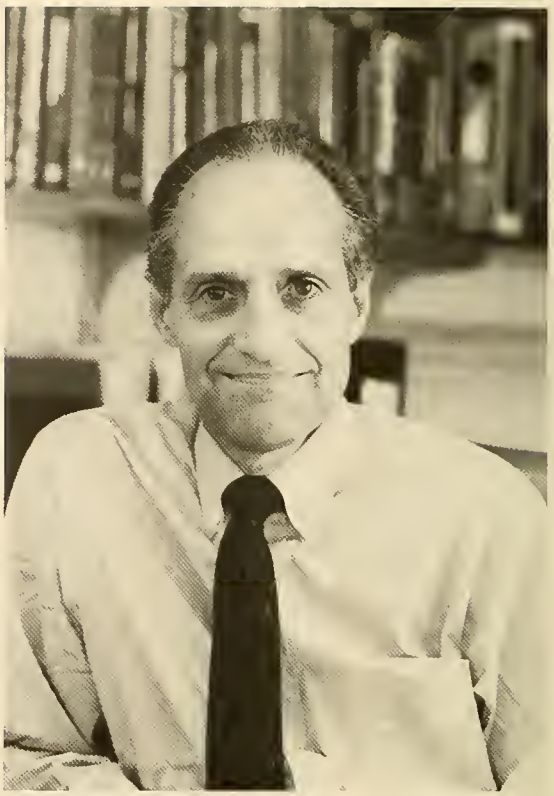


Julius B. Richmond, M.D.

Richmond receives Howland Award

Julius B. Richmond, M.D., adviser for Child Health Policy at Children's, received the Howland Award of the American Pediatric Society during the society's annual meeting in May. Richmond, who served simultaneously as assistant secretary for Health in the U.S. Department of Health and Human Services and United States surgeon general from 1977 to 1981, was honored for his premier role in the development of medical education, studies of mother-child relationships, and public policy initiatives to address the needs of children.

The Howland Award is presented annually to honor a physician whose contributions to pediatrics have aided in its advancement.



Joseph J. Volpe, M.D.

Volpe named neurologist-in-chief

Joseph J. Volpe, M.D., became neurologist-in-chief and director of the Mental Retardation Research Center at Children's Aug. 1. He was also named Bronson Crothers Professor of Neurology at Harvard Medical School. Volpe succeeded Charles F. Barlow, M.D., who served in the positions for 27 years.

Volpe, a native of Salem, Mass., and a 1964 graduate of Harvard Medical School, came to Children's from the Washington University School of Medicine in St. Louis. There, he led the Division of Pediatric Neurology and served as A. Ernest and Jane G. Stein Professor of Developmental Neurology. He also directed the clinical and academic programs in pediatric neurology at St. Louis Children's Hospital.

Barlow remains active in the department as neurologist-in-chief emeritus. In his distinguished career at Children's, Barlow made significant contributions in many areas, including the study of brain fluids and the blood-brain barrier, and migraine headaches.

Ramzi S. Cotran, M.D.

Interim pathologist-in-chief named

Ramzi S. Cotran, M.D., chairman of the Longwood Area Pediatric Pathology Executive Committee and chairman of the Department of Pathology at Brigham and Women's Hospital, was appointed Children's interim pathologist-in-chief Jan. 1, succeeding Lynne M. Reid, M.D., who had served in that position since 1976.

Reid remains on staff as pathologist-in-chief emeritus. She is also the S. Burt Wolbach Professor of Pathology at Harvard Medical School.

Melanie S. Kim, M.D.

Kim appointed chief of Blackfan Medical Service

Melanie S. Kim, M.D., assistant in Medicine (Nephrology), was appointed chief of the Kenneth D. Blackfan Medical Service for school-age children. She succeeds John W. Graef, M.D., associate in Medicine, who served in the position since 1987. The Blackfan Service coordinates medical care for children between the ages of 4 and 13 with diagnoses of respiratory illnesses, gastrointestinal diseases, chronic diseases, and various infections.

Kim first came to Children's in 1982 as a clinical fellow in Nephrology. She has served as clinical director of the General Renal Service since 1986.

Mary Ellen Avery, M.D.

Avery receives national honors

Mary Ellen Avery, M.D., senior associate in Medicine (Newborn Medicine) and former physician-in-chief, received the United States Food and Drug Administration (FDA) Commissioner's Special Citation in May in Washington, D.C. Avery was honored for providing advisory services to the FDA that led to the approval of two surfactants used to treat premature infants with respiratory distress syndrome.

In addition, Avery was elected to the Board of Directors of the American Association for the Advancement of Science, and assumed the presidency of the American Pediatric Society.

Frederick H. Lovejoy Jr., M.D.

Lovejoy appointed to HMS committee

Frederick H. Lovejoy Jr., M.D., associate physician-in-chief and chief of Inpatient Services, was appointed secretary of the Department of Pediatrics at Harvard Medical School in 1990. With this appointment, Lovejoy became one of five committee members responsible for making academic appointments at Harvard Medical School, and clinical appointments at Children's and in the Department of Pediatrics at Massachusetts General Hospital.

D'Andrea honored with two research awards

Alan D. D'Andrea, M.D., assistant in Medicine (Hematology/Oncology), received two prestigious awards in 1990: the Markey Scholar Award in Biomedical Science from the Lucille P. Markey Charitable Trust and the Young Investigator Award from the Society for Pediatric Research.

D'Andrea earned both awards for his groundbreaking work associated with cloning the erythropoietin (EPO) receptor gene. EPO is the hormone responsible for human red blood cell production and is of great value in the treatment of patients with anemia. Cloning of this receptor will allow a better molecular understanding of the mechanism of EPO.

Andrews wins Young Researcher Award

Nancy C. Andrews, M.D., Ph.D., fellow in Medicine (Hematology/Oncology), was honored with a House Officer Research Award from the Society for Pediatric Research. She was one of two researchers nationwide to receive the award.

Andrews was recognized for her research on nuclear factor binding sites in the interleukin-3 promoter, a growth factor that fosters the formation of blood cells. The research could eventually contribute to the treatment of leukemia patients and others whose conditions inhibit the formation of blood cells.

In memoriam: Gordon Fuller Vawter, M.D., 1923-1990

Gordon Fuller Vawter, M.D., associate pathologist-in-chief, died April 11, after a long battle with lymphoma. He was 67 years old and had served Children's for 32 years.

Vawter was recognized as a superb diagnostician, clinical investigator, and teacher, and had trained many of the current leaders in pediatric pathology in the United States and abroad. His pathological evaluations contributed to improved treatment techniques for a number of diseases in children, including immunologic deficiencies. In 1988, Vawter received the President's Award from the Society of Pediatric Pathology.

In addition to his work at Children's, Vawter was a consultant for the Dana-Farber Cancer Institute and the Boston Veterans Administration Hospital.

NURSING STAFF NEWS

Kim Krysko, R.N., works with 2-year-old Adam Brazzo on the Orthopaedic Unit.

Department of Nursing initiates new model of inpatient care delivery on Orthopaedic Unit

In a move designed to enhance the professional development of nurses, the Department of Nursing announced its new inpatient care delivery model in early 1990, and began instituting the plan in October.

The new system is expected to provide cost-efficient support to the 900 nurses who care for patients at Children's, and to more clearly define the roles of nurses, Pharmacy technicians, and Environmental Services workers on each unit.

Through a reallocation of resources and a change in the skill level of some positions within the departments of Nursing, Pharmacy, and Environmental Services, the plan's designers expect to free nurses from various non-nursing tasks. At the same time, the changes will give Pharmacy and Environmental Services staff members more responsibility and increase their contact with patients and families. The system calls for the formation of teams on each unit, with nurse managers acting as team leaders, and managers and supervisors from each department working together to create the most efficient teams based on the needs of each unit.

As a result of the plan and normal attrition, the hospital expects a decrease in the number of registered nurses and a corresponding increase in the number of nursing assistants and full-time employees overall.

The new plan was first instituted on 10 North, the 36-bed Orthopaedic Unit. Full implementation is expected to take from two to four years.

The model was designed and implemented by a committee comprised of members from the departments of Central Processing, Engineering, Environmental Services, Human Resources, Nursing, Nutrition and Food Service, Patient Services, Pharmacy, and Budget. The committee was formed by Eileen M. Sporing, R.N., M.S.N., vice president for Nursing.

Department of Nursing launches Grand Rounds

Children's Department of Nursing in May instituted Nursing Grand Rounds, a forum for the recognition of expert clinical practice within the Department of Nursing. The monthly sessions, organized jointly by the department's Clinical Nurse Specialist Council and Council on Education, provide an opportunity for Children's nurses to share information about nursing practice.

The sessions concentrate on a variety of specialty areas, focusing particularly on the collaboration among nurses that is essential for the delivery of care to patients with complex disorders. Nursing Grand Rounds topics have included chronic illness and suicide, care of the patient on extracorporeal membrane oxygenation, and care of the child with acute myelogenous leukemia.

Fielman receives Shairs Scholarship

Barbara A. Fielman, R.N., B.S.N., staff nurse II in the Cardiac Intensive Care Unit, received the first annual Joshua Tyler Shairs Cardiac Scholarship in 1990. The scholarship was established in April by George and Patricia Shairs in memory of their son Joshua, a cardiac patient at Children's who died in 1988 at the age of 5. The $1,000 Shairs scholarship will henceforth be awarded annually to an individual working in a cardiac program at Children's who is pursuing nursing education.

Fielman, who was one of Joshua's nurses, is currently working toward a master's degree in pediatric critical care at Northeastern University. When she graduates in September 1991 she will be a certified clinical nurse specialist and pediatric nurse practitioner.

Since 1988, the Shairs family has sponsored an annual benefit dance to support cardiac programs at Children's. In April the family decided to use the fund to support the cardiac nursing scholarship.

Mehta receives David Cayton Fellowship Award

Neeta Mehta, R.N., B.S.N., staff nurse II, was the recipient of the 1990 David Cayton Fellowship Award, which honors nurses who have an interest and expertise in treating bone marrow transplantation patients.

Mehta has worked on the Bone Marrow Transplantation Intensive Care Unit at Children's since 1986. She will use the Cayton Fellowship Award to attend a national conference on bone marrow transplantation in 1991.

The award was established by the Cayton family in 1978 in honor of David Cayton, who died of idiopathic aplastic anemia at Children's.

Neeta Mehta, R.N., B.S.N., thanks well-wishers after receiving the David Cayton Fellowship Award for her work with bone marrow transplantation patients.

TRUSTEE/OVERSEER ACTIVITIES

Judge Joseph L. Tauro accepts the Chairman's Award at the hospital's Annual Dinner.

Trustees, overseers complete productive year; Tauro receives annual Chairman's Award

Judge Joseph L. Tauro was the 1990 recipient of the Chairman's Award, presented at Children's Annual Dinner in March at the Colonnade Hotel. The award, presented annually to a volunteer leader for long-term service to the hospital, recognized Tauro for 10 years of service on the hospital's Board of Trustees.

The keynote speaker for the Annual Dinner was T. Berry Brazelton, M.D., senior associate in Medicine and chief emeritus of Children's Child Development Unit. Brazelton discussed current child care issues and the challenges parents face in managing responsibilities in both the home and the workplace.

New trustees and overseers were introduced at the Annual Dinner: Stephen R. Karp was welcomed to the Board of Trustees; and Cynthia R. Boardman, Dawn-Marie Driscoll, Anne E. Dyson, M.D., John Irwin, Martha S. Mugar, Peter C. Nordblom, and Kevin C. Phelan were welcomed to the Board of Overseers.

In October, trustees, overseers, and donors toured selected areas of the hospital and learned about ongoing patient care and research developments at the Tour and Briefing. Guests were briefed by four Children's researchers: Patricia D'Amore, Ph.D., research associate in Surgery, discussed current work in the Surgical Research Laboratories; John A. Kirkpatrick Jr., M.D., radiologist-in-chief, spoke on radiologic diagnostic technologies; Eileen M. Sporing, R.N., M.S.N., vice president for Nursing, talked about Children's new nursing care delivery model; and Howard J. Weinstein, M.D., associate in Medicine (Hematology/Oncology) and chief of the Bone Marrow Transplantation Service, discussed matched, unrelated bone marrow transplantation.

Julian Pearlman, M.D., (left), watches the festivities at the Festival for Children's Hospital as League member Dorothy Pearlman talks with David M. Kaplan, a Children's overseer.

Children's Hospital League has active year, supports variety of activities for patients

The Westin Lobby was once again decorated with glittering trees, handmade wreaths, and gingerbread houses for the annual Festival for Children's Hospital, conducted Nov. 30 by the Children's Hospital League.

More than 600 supporters of the hospital attended the event, which included cocktails, dinner, dancing, raffles, and an auction presided over by Lewis R. First, M.D., director of Pediatric Group Associates (PGA) at Children's Hospital.

The event was co-chaired by Carolyn Connors and Lois Doyle.

Other fund-raising efforts by the League during the year include participation in the Thrift Shop in Jamaica Plain, the sale of remembrance cards, a party at the Charles River Yacht Club, and individual solicitations.

The proceeds from the League's activities go directly to fulfill the League's $2 million Children's Campaign pledge. The League also supports a variety of programs for patients, including the Summer Garden Program, providing patients with special events in the Prouty Garden; the Foster Grandparents Program, offering children companionship at the bedside; and a host of musicians, magicians, storytellers, and other performers who entertain children in the Patient Entertainment Center.

The League held its annual board meeting at Children's in the spring. First talked with members of the League about PGA, a program that offers comprehensive general pediatric evaluations and training for house staff.

Lewis R. First, M.D., serves as auctioneer at the 1990 Festival for Children's Hospital.

WBZ-CHILDREN'S HOSPITAL FUND HIGHLIGHTS

WBZ listeners enjoy the fun and activities at the 1990 WBZ Farmstand in Wilmington, Mass.

WBZ-TV sports anchor Bob Lobel (left) talks with the New England Patriots' Irving Fryar and his wife, Jacqueline, during the telethon. The Fryar's daughter, Adrianne, was treated at Children's as a newborn.

Annual WBZ Radio, TV, fund-raising campaign continues to draw support from community

The special relationship between WBZ and Children's Hospital continued in 1990, as the WBZ-Children's Hospital Fund marked the first year of its second decade. The campaign continues to evolve to meet the changing times, and this year the location of the WBZ Radio Farmstand was changed, radio broadcasts were moved from Downtown Crossing to malls in the Greater Boston area, and a new telethon format was introduced. Hundreds of volunteers and thousands of donors contributed to the outstanding success of this year's campaign.

To accommodate the enthusiastic crowd drawn by the WBZ Radio Farmstand each September, the traditional campaign kick-off was moved this year from the WBZ studios to the Shriners Auditorium in Wilmington, Mass. The Farmstand raised more than $60,000 through the sale of fresh produce, homemade crafts, and other items donated by WBZ listeners throughout New England.

Beginning the day after Thanksgiving and continuing until Dec. 23, WBZ Radio broadcast live in support of Children's Hospital from five New England Development malls. WBZ Radio personalities auctioned donated

WBZ-TV personality Charlie Austin is surrounded by activity in the Patient Entertainment Center during the telethon.

WBZ Radio personalities Dave Maynard (left) and Tom Bergeron broadcast live from the CambridgeSide Galleria and other malls to benefit Children's Hospital.

items, and all proceeds went to the WBZ-Children's Hospital Fund. Several local music groups managed by promoter Maurice Starr performed at the malls, and a poster featuring the groups' members was sold to benefit Children's. Throughout the month, Children's patients, families, and staff were guests on the radio broadcasts.

The Children's Hospital Telethon, featuring various programs about Children's patients, was held Dec. 18 and 19. Patients and families appeared on "People are Talking" Dec. 18, a special half-hour program from 7:30 to 8 p.m. both nights, and a two-hour special about Children's that was the finale for the telethon. Hundreds of volunteers donated time to answer telephones and record pledges for the telethon.

Thanks to the dedication of WBZ staff and the hospital's patients, families, and staff, thousands of people in the community heard the Children's story, took the time to care, and donated to the 1990 campaign.

STATISTICAL AND FINANCIAL REPORT

STATISTICS

PATIENT:	1990	1989
Number of licensed beds	349	335
Discharges	15,995	14,937
Patient days	101,844	99,812
Average stay in days	6.37	6.68
Clinic visits	186,887	175,191
Emergency Services visits	47,695	49,284
Surgical procedures		
Inpatient	7,657	8,461
Outpatient	5,110	5,025
Total	12,767	13,486
Radiology		
Procedures performed	94,806	81,568
Laboratory tests	1,589,134	1,055,364

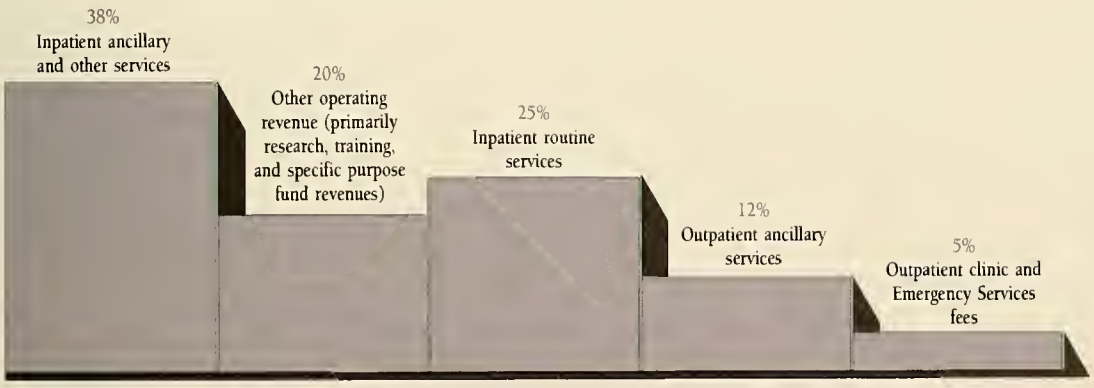
PERSONNEL:	1990	1989
Active medical staff	527	706
Active dental staff	17	10
Associated scientific staff	159	183
Courtesy staff	293	326
House staff	522	479
Consultants	93	104
Emeriti	23	29
Clinical assistants	25	40
Visiting staff	16	26
Nursing staff	1,008	923
Other full-time employees	1,899	1,628
Other part-time employees	609	483
Volunteers	760	760

STATEMENT OF REVENUES AND EXPENSES

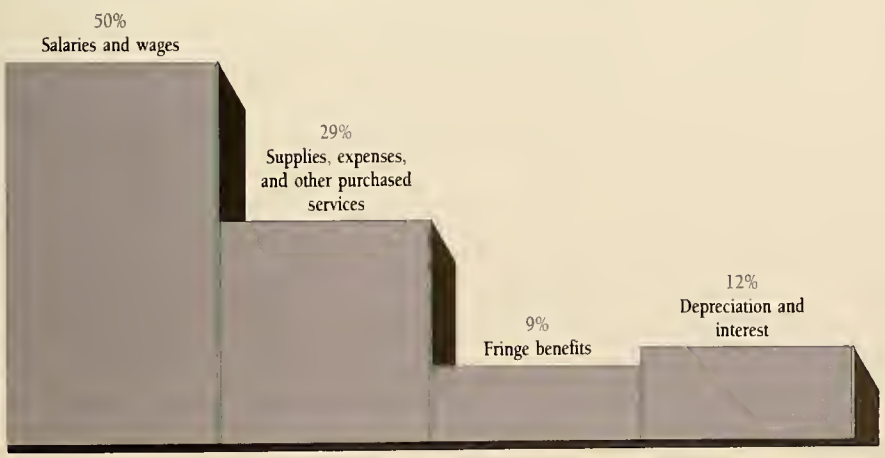
and funds used for capital additions
years ended September 30, 1990 and 1989
(in thousands of dollars)

REVENUES:	1990	1989
Gross patient services revenue	$283,805	$215,131
Deductions from patient services revenue	(83,940)	(43,961)
Net patient services revenue	199,865	171,170
Other operating revenue	71,658	63,962
Total operating revenues	271,523	235,132
OPERATING EXPENSES:		
Salaries and wages	105,199	98,684
Fringe benefits	19,465	16,446
Supplies and expenses	60,736	51,339
Depreciation and amortization	19,215	14,918
Interest	7,241	6,149
Research and training expenses	37,159	33,918
Other specific purpose fund activity	19,383	18,416
Total operating expenses	268,398	239,870
Gain from patient care operations	3,125	(4,738)
Income from prior-year contractuals	3,779	2,504
Income from non-operating activities	2,416	2,475
Excess of revenues over expenses	$ 9,320	$ 241
Capital additions	$ 37,059	$ 49,512

SOURCES OF REVENUES



DISTRIBUTION OF EXPENSES



CONDENSED BALANCE SHEET

years ended September 30, 1990 and 1989
(in thousands of dollars)

ASSETS:	1990	1989
General funds	$ 477	$ 3,242
Current	53,410	51,840
Accounts receivable, net	2,268	2,467
Prepaid expenses	2,077	1,464
Total	58,232	59,013
Assets held in trust under long-term debt agreements	18,383	23,418
Plant, property, and equipment at cost less accumulated depreciation	215,084	194,350
Other assets	36,737	17,820
Total	328,436	294,601
Restricted funds		
Accounts receivable	9,827	7,171
Total	$338,263	$301,772
LIABILITIES AND FUND BALANCES:		
General funds		
Current		
Current portion of long-term debt	$ 1,987	$ 9,362
Accounts payable and accrued expenses	46,004	35,330*
Due to third-party payors	29,833	3,938
Total	77,824	48,630
Long-term debt, excluding current portion	104,678	106,665
Deferred compensation	5,626	6,047
Deferred third-party reimbursement	1,764	1,935
Deferred revenue	15,295	16,100*
Reserve for medical malpractice	8,414	8,416
Fund balance	114,835	106,808
Total	328,436	294,601
Restricted fund balances		
Specific purpose funds	9,827	7,171
Total	$338,263	$301,772

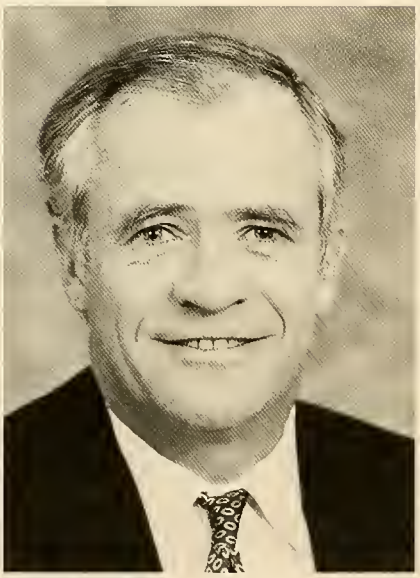
**restated for 1989*

1990 BOARD OF TRUSTEES

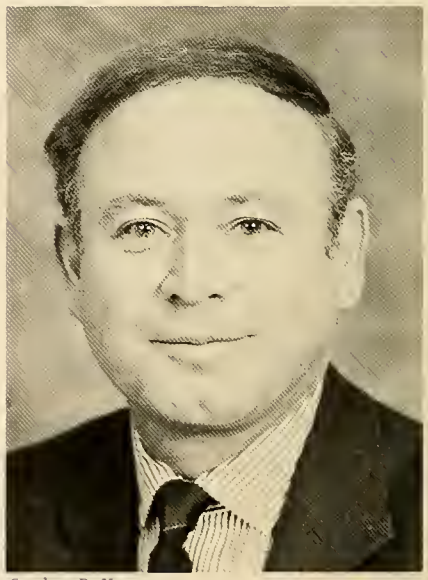
The Honorable John P. LaWare
Chairman of the Board

David S. Weiner
President

Aldo R. Castaneda, M.D., Ph.D.



Charles K. Gifford



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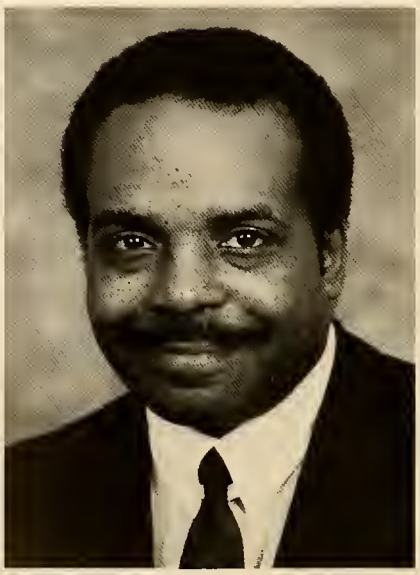

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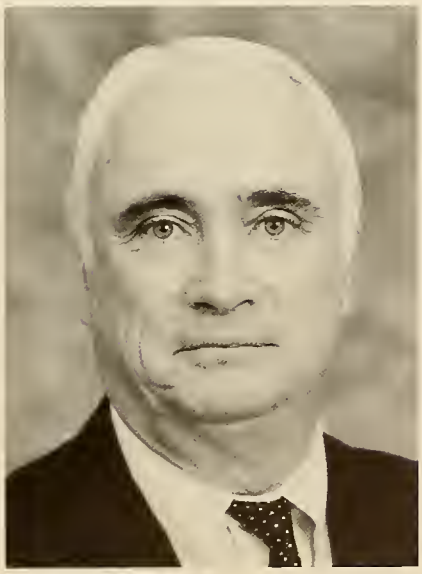

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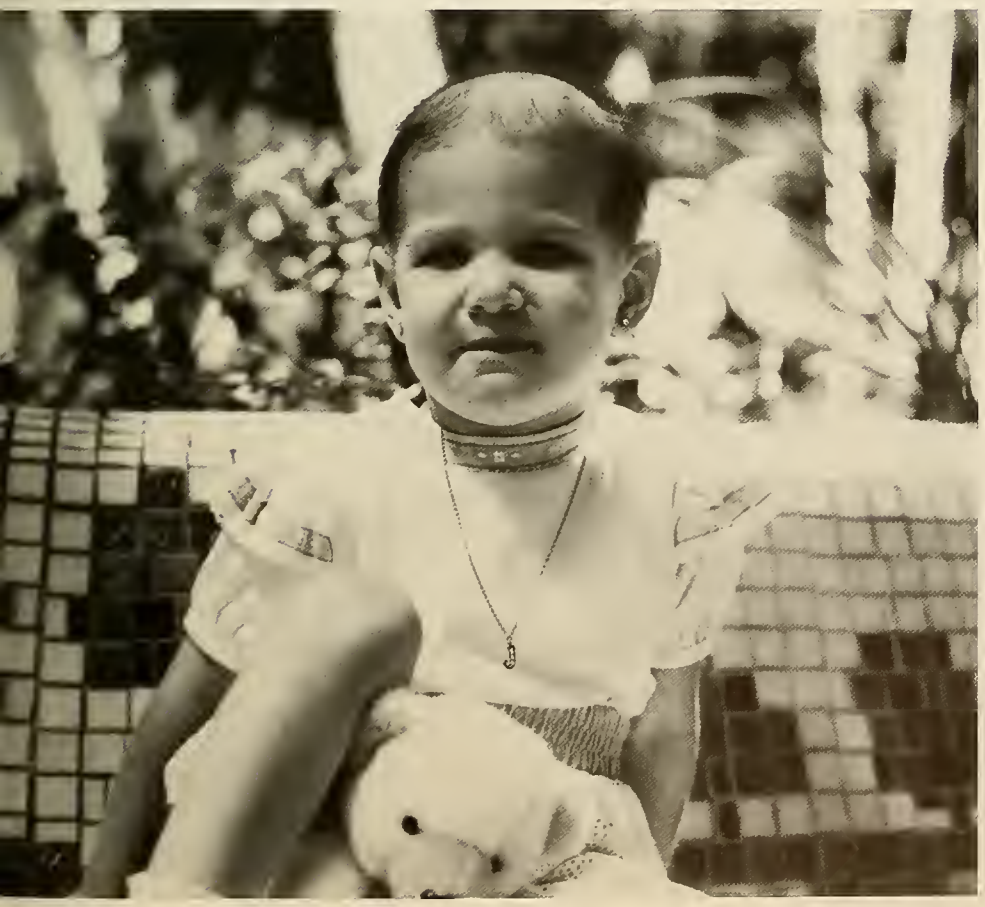

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Combined Federal Campaign Massachusetts Bay Area United Way
The Consul General of Greece
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East End Social Club of Lowell, Inc.
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WBZ-Children's Hospital Fund
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Children's Hospital League

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Libby Casty, 16 years
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Marian Clark, 25 years
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Nancy George, 14 years
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Robert Groden, 25 years
Eleanor Karp, 16 years
Myrtle Koenig, 20 years
Charles Lloyd, 16 years
Dick O'Shea, 10 years
Bess Pappas, 15 years
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Mae Rosenberg, 29 years
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Sandy Selesky, 18 years
Lillian Shulman, 33 years
M. Greely Summers, 13 years

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The graceful cherry blossoms and wisteria vines that decorate the expansive Main Lobby windows send a very special message of thanks to the Children's Hospital family. The artwork was created by Yi-Fang, an artist from China, whose son received life-saving treatment and surgery at Children's.

Before coming to Children's in March 1990, Li-Jian, known as Wei-Wei, was so sick that he rarely got out of bed. He suffered from Hirschsprung's disease, a complex gastrointestinal disorder that hindered his digestion and impeded his growth. A series of operations in Chinese hospitals failed to correct his condition. With the aid of an English-speaking relative, the family persevered through a letter-writing labyrinth and eventually found its way to Children's and the care of W. Hardy Hendren III, M.D., chief of Surgery.

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year. Your
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It is important that there always be a place like Children's Hospital where parents know that their children will receive the best pediatric care in the world.

For Children's to deliver this special kind of care, the hospital needs the support of many friends. Your gift can make a difference in a young child's life. Please give as generously as you can.

Children's Hospital

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Though 8 years old when he arrived, Wei-Wei weighed just 29 pounds. After months of intravenous nutrition to gain sufficient weight to endure surgery, he underwent a 12-hour operation during which Hendren rerouted and reconstructed his gastrointestinal system.

Today, Wei-Wei is doing well. He runs and plays games and recently celebrated his ninth birthday with American and Chinese friends in Chinatown, where the family is living. Wei-Wei is studying Chinese and English in school, and is a fervent collector of Teenage Mutant Ninja Turtles memorabilia.

The hospital community has benefited from the artistic gifts of both Yi-Fang and Wei-Wei. Wei-Wei has become known throughout Children's for the detailed clay figurines he fashions for friends, including an intricate elephant he created to thank his surgeon.

Through the gifts of thousands of donors each year, Children's is able to help children from the Boston area and — like Wei-Wei — from around the world when their hope for health hinges on the hospital's world-renowned patient care and research.

Please consider a gift to Children's this year. Your contribution helps provide hope of a healthy future to children everywhere.

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